POPULATION ESTIMATES

Northwest Territories
December 1980

Bureau of Statistics
Government of the
Northwest Territories

Population Estimates
Northwest Territories
December 1980

Price: $3.00

ISSN 0226-5699

Published by the:

Department of Information
Government of the Northwest Territories
Yellowknife, Northwest Territories, X1A 2L9

May 1981

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POPULATION ESTIMATES

1. Introduction

This report presents Northwest Territories population estimates for December 1980 and outlines estimation procedures. Methodological details are provided in the Appendix.

Tables in this report present population and population change information for 1978 through 1980. Community, regional and territorial totals are provided. Information is also included for the Central Arctic Region, which was formed April 1, 1981.

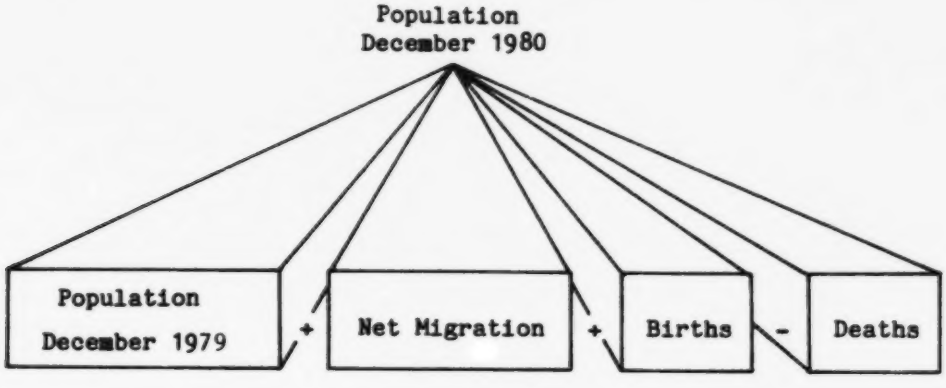
2. Population Highlights

Population estimates provided in this report indicate that:

- during 1980 the Northwest Territories experienced a population loss of almost 200 persons. This compares to a population loss of more than 300 for 1979.
- all regions except Fort Smith experienced small population gains. The Inuvik Region population increased by an estimated 233 persons compared to a loss of more than 100 during 1979.
- net out-migration from the Northwest Territories fell to an estimated 1172 persons compared to 1349 in 1979. (Based on health care registrations fewer people migrated to the Northwest Territories -- 2764 compared to 4283 during 1979. It follows that considerably fewer persons left the Territories -- an estimated 3936 in 1980 compared to 5632 the previous year.)
- in 1979 all regions experienced population losses due to migration. In 1980 this trend was reversed for Keewatin and Inuvik Regions. Net out-migration from the Fort Smith Region exceeded 1000 persons.
- for the Northwest Territories taken as a whole, natural increase (the excess of births over deaths) offset for the most part population losses attributable to migration. Once again births were more than 1200, with deaths being in the order of 200 persons.

3. Estimation Procedure

Population estimates were developed for all communities by adjusting year-end 1979 population figures for the effects of birth, death and migration during 1980. The schematic for this procedure is as follows:



Birth and death information was provided by the Registrar General of Vital Statistics, while migration estimates were developed from Family Allowance statistics with adjustments for school enrolment information. Details are provided in the Appendix.

Population figures for Snare Lake are provided separately from those of Rae-Edzo. Population estimates for Rae-Edzo have been adjusted to reflect this change.

TABLES

POPULATION ESTIMATES, by Region
Northwest Territories, December 1978 to 1980

	Population			Percentage Change	
	1980	1979	1978	1980/79	1979/78
Northwest Territories	45 882	46 063	46 393	-0.4	-0.7
Baffin	8 269	8 233	8 168	0.4	0.8
Keewatin	4 258	4 179	4 146	1.9	0.8
Central Arctic	3 374	3 306	3 284	2.1	0.7
Inuvik	7 564	7 331	7 435	3.2	-1.4
Fort Smith	22 417	23 014	23 360	-2.6	-1.5

COMPONENTS OF POPULATION CHANGE, by Region
Northwest Territories, December 1979 to 1980

	Population			Components of Change		
	1980	1979	Change	Births	Deaths	Migration
Northwest Territories	45 882	46 063	-181	1 219	228	-1 172
Baffin	8 269	8 233	36	287	42	-209
Keewatin	4 258	4 179	79	84	15	10
Central Arctic	3 374	3 306	68	114	22	-24
Inuvik	7 564	7 331	233	221	41	53
Fort Smith	22 417	23 014	-597	513	108	-1 002

PERCENTAGE DISTRIBUTION OF POPULATION, by Region
Northwest Territories, December 1978 to 1980

	1980	1979	1978
Northwest Territories	100.0	100.0	100.0
Baffin	18.0	17.9	17.6
Keewatin	9.3	9.1	8.9
Central Arctic	7.4	7.2	7.1
Inuvik	16.5	15.9	16.0
Fort Smith	48.9	50.0	50.4

POPULATION ESTIMATES, by Region and Community
Northwest Territories, December 1978 to 1980

	Population			Percentage Change	
	1980	1979	1978	1980/79	1979/78
Northwest Territories	45 882	46 063	46 393	-0.4	-0.7
Baffin	8 269	8 233	8 168	0.4	0.8
Arctic Bay	401	377	403	6.4	-6.5
Broughton Island	323	314	329	2.9	-4.6
Cape Dorset	763	725	693	5.2	4.6
Clyde River	443	443	411	-	7.8
Frobisher Bay	2 419	2 454	2 490	-1.4	-1.4
Grise Fiord	85	95	99	-10.5	-4.0
Hall Beach	400	396	396	1.0	-
Igloolik	789	766	753	3.0	1.7
Lake Harbour	297	300	301	-1.0	-0.3
Nanisivik	278	291	273	-4.5	6.6
Pangnirtung	899	909	878	-1.1	3.5
Pond Inlet	647	652	649	-0.8	0.5
Resolute Bay	155	177	167	-12.4	6.0
Sanikiluaq	370	334	326	10.8	2.5
Keewatin	4 258	4 179	4 146	1.9	0.8
Baker Lake	1 062	1 017	1 007	4.4	1.0
Chesterfield Inlet	275	281	291	-2.1	-3.4
Coral Harbour	425	414	414	2.7	-
Eskimo Point	994	980	960	1.4	2.1
Rankin Inlet	1 007	956	978	5.3	-2.2
Repulse Bay	326	328	295	-0.6	11.2
Whale Cove	169	203	201	-16.7	1.0
Central Arctic	3 374	3 306	3 284	2.1	0.7
Bathurst Inlet	31	30	29	3.3	3.4
Bay Chimo	65	66	66	-1.5	-
Cambridge Bay	907	864	853	5.0	1.3
Coppermine	761	766	803	-0.7	-4.6
Gjoa Haven	517	493	464	4.9	6.3
Holman Island	358	336	328	6.5	2.4
Pelly Bay	270	281	287	-3.9	-2.1
Spence Bay	465	470	454	-1.1	3.5

(cont'd)

POPULATION ESTIMATES, by Region and Community (cont'd)
Northwest Territories, December 1978 to 1980

	Population			Percentage Change	
	1980	1979	1978	1980/79	1979/78
Inuvik	7 564	7 331	7 435	3.2	-1.4
Aklavik	818	750	761	9.1	-1.4
Arctic Red River	98	79	111	24.1	-28.8
Colville Lake	75	73	73	2.7	-
Fort Franklin	545	554	512	-1.6	8.2
Fort Good Hope	460	446	446	3.1	-
Fort McPherson	793	781	813	1.5	-3.9
Fort Norman	359	312	329	15.1	-5.2
Inuvik	2 929	2 892	2 938	1.3	-1.6
Norman Wells	384	361	352	6.4	2.6
Paulatuk	169	166	163	1.8	1.8
Sachs Harbour	172	170	177	1.2	-4.0
Tuktoyaktuk	762	747	760	2.0	-1.7
Fort Smith	22 417	23 014	23 360	-2.6	-1.5
Detah	158	161	162	-1.9	-0.6
Enterprise	40	40	40	-	-
Fort Liard	342	344	327	-0.6	5.2
Fort Providence	554	571	556	-3.0	2.7
Fort Resolution	512	523	521	-2.1	0.4
Fort Simpson	992	1 001	1 080	-0.9	-7.3
Fort Smith	2 297	2 234	2 347	2.8	-4.8
Hay River	3 129	3 345	3 398	-6.5	-1.6
Jean Marie River	49	49	48	-	2.1
Kakisa	39	41	40	-4.9	2.5
Lac La Martre	238	231	225	3.0	2.7
Nahanni Butte	94	92	94	2.2	-2.1
Paradise Gardens	58	58	58	-	-
Pine Point	1 647	1 719	1 763	-4.2	-2.5
Port Radium	139	140	152	-0.7	-7.9
Rae Lakes	178	177	172	0.6	2.9
Rae-Edzo	1 314	1 309	1 409	0.4	-7.1
Reliance	9	9	9	-	-
Snare Lake	60	58	58	3.4	-
Snowdrift	285	264	262	8.0	0.8
Trout Lake	63	61	60	3.3	1.7
Tungsten	508	506	423	0.4	19.6
Wrigley	162	163	175	-0.6	-6.9
Yellowknife	9 550	9 918	9 981	-3.7	-0.6

COMPONENTS OF POPULATION CHANGE, by Region and Community
Northwest Territories, December 1979 to 1980

	Population			Components of Change		
	1980	1979	Change	Births	Deaths	Migration
Northwest Territories	45 882	46 063	-181	1 219	228	-1 172
Baffin	8 269	8 233	36	287	42	-209
Arctic Bay	401	377	24	21	-	3
Broughton Island	323	314	9	16	2	-5
Cape Dorset	763	725	38	24	7	21
Clyde River	443	443	-	16	2	-14
Frobisher Bay	2 419	2 454	-35	74	11	-98
Grise Fiord	85	95	-10	4	2	-12
Hall Beach	400	396	4	13	2	-7
Igloolik	789	766	23	35	5	-7
Lake Harbour	297	300	-3	11	3	-11
Nanisivik	278	291	-13	7	-	-20
Pangnirtung	899	909	-10	26	4	-32
Pond Inlet	647	652	-5	25	1	-29
Resolute Bay	155	177	-22	6	-	-28
Sanikiluaq	370	334	36	9	3	30
Keewatin	4 258	4 179	79	84	15	10
Baker Lake	1 062	1 017	45	19	2	28
Chesterfield Inlet	275	281	-6	5	1	-10
Coral Harbour	425	414	11	11	2	2
Eskimo Point	994	980	14	20	6	-
Rankin Inlet	1 007	956	51	23	1	29
Repulse Bay	326	328	-2	5	-	-7
Whale Cove	169	203	-34	1	3	-32
Central Arctic	3 374	3 306	68	114	22	-24
Bathurst Inlet	31	30	1	2	1	-
Bay Chimo	65	66	-1	-	1	-
Cambridge Bay	907	864	43	27	7	23
Coppermine	761	766	-5	23	2	-26
Gjoa Haven	517	493	24	20	5	9
Holman Island	358	336	22	9	2	15
Pelly Bay	270	281	-11	13	-	-24
Spence Bay	465	470	-5	20	4	-21

(cont'd)

COMPONENTS OF POPULATION CHANGE, by Region and Community (cont'd)
Northwest Territories, December 1979 to 1980

	Population			Components of Change		
	1980	1979	Change	Births	Deaths	Migration
Inuvik	7 564	7 331	233	221	41	53
Aklavik	818	750	68	27	12	53
Arctic Red River	98	79	19	2	-	17
Colville Lake	75	73	2	2	-	-
Fort Franklin	545	554	-9	12	2	-19
Fort Good Hope	460	446	14	19	1	-4
Fort McPherson	793	781	12	19	5	-2
Fort Norman	359	312	47	5	3	45
Inuvik	2 929	2 892	37	90	16	-37
Norman Wells	384	361	23	10	1	14
Paulatuk	169	166	3	3	-	-
Sachs Harbour	172	170	2	1	-	1
Tuktoyaktuk	762	747	15	31	1	-15
Fort Smith	22 417	23 014	-597	513	108	-1 002
Detah	158	161	-3	-	3	-
Enterprise	40	40	-	-	-	-
Fort Liard	342	344	-2	14	1	-15
Fort Providence	554	571	-17	11	1	-27
Fort Resolution	512	523	-11	7	4	-14
Fort Simpson	992	1 001	-9	27	3	-33
Fort Smith	2 297	2 234	63	49	17	31
Hay River	3 129	3 345	-216	64	23	-257
Jean Marie River	49	49	-	-	-	-
Kakisa	39	41	-2	-	2	-
Lac La Martre	238	231	7	9	2	-
Nahanni Butte	94	92	2	2	-	-
Paradise Gardens	58	58	-	-	-	-
Pine Point	1 647	1 719	-72	42	6	-108
Port Radium	139	140	-1	-	1	-
Rae Lakes	178	177	1	1	-	-
Rae-Edzo	1 314	1 309	5	48	8	-35
Reliance	9	9	-	-	-	-
Snare Lake	60	58	2	2	-	-
Snowdrift	285	264	21	5	-	16
Trout Lake	63	61	2	2	-	-
Tungsten	508	506	2	2	2	2
Wrigley	162	163	-1	3	4	-
Yellowknife	9 550	9 918	-368	225	31	-562

MIGRATION OF FAMILIES, by Previous Residence and Destination
Northwest Territories, December 1978 to 1980

	Families			Percentage Change	
	1980	1979	1978	1980/79	1979/78
In-migration	552	534	548	3.4	-2.6
Atlantic	64	69	64	-7.2	7.8
Quebec	31	25	23	24.0	8.7
Ontario	140	93	111	50.5	-16.2
West	317	347	350	-8.6	-0.9
Out-migration	767	782	712	-1.9	9.8
Atlantic	66	50	46	32.0	8.7
Quebec	32	32	37	-	-13.5
Ontario	111	90	89	23.3	1.1
West	558	610	540	-8.5	13.0

(Family Allowance Statistics. Department of National Health and Welfare, Canada.)

MIGRATION OF CHILDREN, by Previous Residence and Destination
Northwest Territories, December 1978 to 1980

	Children			Percentage Change	
	1980	1979	1978	1980/79	1979/78
In-migration	1 006	1 012	1 051	-0.6	-3.7
Atlantic	125	127	129	-1.6	-1.6
Quebec	62	55	44	12.7	25.0
Ontario	250	191	194	30.9	-1.5
West	569	639	684	-11.0	-6.6
Out-migration	1 464	1 503	1 421	-2.6	5.8
Atlantic	127	106	91	19.8	16.5
Quebec	66	69	72	-4.3	-4.2
Ontario	204	159	180	28.3	-11.7
West	1 067	1 169	1 078	-8.7	8.4

(Family Allowance Statistics. Department of National Health and Welfare, Canada.)

IN-MIGRATION, by Previous Residence
Northwest Territories, December 1978 to 1980

	Persons			Percentage Change	
	1980	1979	1978	1980/79	1979/78
In-migration	2 764	4 283	4 380	-35.5	-2.2
Atlantic	369	493	477	-25.2	3.4
Quebec	197	352	253	-44.0	39.1
Ontario	713	955	971	-25.3	-1.6
West	1 355	2 297	2 355	-41.0	-2.5
Other	130	186	324	-30.1	-42.6

(Health Care Registrations. Department of Health, Government of the Northwest Territories.)

APPENDIX

A. Population Estimation Procedure, December 1980

Population figures for December 1980 were developed by estimating numbers of children 0-17 years of age, parents with children 0-17 years of age, and other adults, for each community. The estimation procedure also provides birth, death and net migration information.

Data Sources

1. Population Statistics, December 1979. Bureau of Statistics, Government of the Northwest Territories.

2. Family Allowance (FA) statistics, December 1979 and 1980. Department of Health and Welfare, Canada.

3. Vital statistics data, 1979 and 1980. Department of Justice and Public Services, Government of the Northwest Territories.

4. School enrolment data, 1979 and 1980. Department of Education, Government of the Northwest Territories.

Estimation of Total Population

Sum of child and adult population estimates.

Estimation of Child Population

1. Children Estimate, 1979: FA children at December 1979, adjusted for births and infant mortality during 1979 and for school enrolment.

2. Children Estimate, 1980: FA children at December 1980, adjusted for births and infant mortality during 1980 and for school enrolment.

Adjustments to FA data were for children less than 1 year, whose population tends to be understated by FA records. Additional adjustments were made for school enrolment data.

Estimation of Adult Population

This procedure develops separate estimates for parents and for other adults:

1. Parents Estimate, 1979: FA families at December 1979, times estimated parents per family at December 1979.

2. Other Adults Estimate, 1979: Population at December 1979, minus parents and children at December 1979.

3. Parent Deaths Estimate, 1980: All adult deaths during 1980, times parents at December 1979, divided by all adults at December 1979.

4. Other Adult Deaths Estimate, 1980: All adult deaths during 1980, minus parent deaths during 1980.

5. Preliminary Parents Estimate, 1980: Parents at December 1979, plus estimated number of parents added due to birth of first child during 1980, minus parents with one child 17 years of age at December 1979, minus deaths to parents during 1980. (Excludes migration.)

6. Preliminary Other Adults Estimate, 1980: Other adults at December 1979, plus children 17 years of age at December 1979, plus parents with one child 17 years of age at December 1979, minus parents whose first child was born during 1980, minus deaths to other adults during 1980. (Excludes migration.)

7. Preliminary Families Estimate, 1980: FA families at December 1979, plus estimated number of families formed by birth of first child during 1980, minus families with one child 17 years of age at December 1979. (Excludes migration.)

8. Parents per Family Estimate, 1980: Preliminary parents estimate, divided by preliminary families estimate.

9. Final Parents Estimate, 1980: FA families at December 1980, times parents per family at December 1980. (Includes migration.)

10. Net Migration of Parents Estimate, 1980: Final parents estimate, minus preliminary parents estimate.

11. Net Migration of Other Adults Estimate, 1980: Preliminary estimate of other adults, times net migration of parents, divided by preliminary estimate of parents.

12. Final Other Adults Estimate, 1980: Preliminary estimate of other adults, plus net migration of other adults during 1980.

13. Adult Population Estimate, 1980: Final parents estimate, plus final other adults estimate.

Estimation of Net Migration

1. Net Migration of Infants Estimate, 1980: FA children less than 1 year of age at December 1980, minus reported births, plus infant deaths during 1980. (Calculated only if positive)

2. Net Migration of Children Estimate, 1980: Children 1-17 at December 1980, minus children 0-16 years of age at December plus net migration of infants, plus deaths to children 1-17 years during 1980.

3. Net Migration Estimate, 1980: Sum of net migration for children, parents and other adults.

B. Population Estimation Procedure, December 1979

Population figures for December 1979 were estimated using the same procedure as was used for December 1980 estimates.

C. Population Estimation Procedure, December 1978

Population estimates for Northwest Territories communities at December 1978 were developed by adjusting year-end 1977 population figures for birth, death and migration.

Components of this estimation were:

1. Base population figures for December 1977.

2. Change in community population due to migration: Net migration identified for children aged 1-14 years from Family Allowance records during 1978 was transformed into an estimate of total migration using age profiles for communities or groupings of similar communities;

3. Births for each community, estimated from Family Allowance statistics;

4. Deaths during calendar year 1978, based on Vital Statistics information.